



- ✖ L16: (0) ("EP766391A").PN.
- ✖ L17: (0) ("EP766391").PN.
- ✖ L18: (1) ("0766391").PN.
- ✖ L19: (0) ("0766391").PN.
- ✖ L20: (0) ("EP766391A").PN.
- ✖ L21: (0) ("EP766391A").PN.
- ✖ L22: (0) ("EP766391A").PN.
- ✖ L23: (7.580) (LC inductance inductor capacitance capacitor) and tuner
- ✖ L24: (2.646) 23 and (frequency near3 control\$4)
- ✖ L25: (20) 24 and "fixed inductance"
- ✖ L26: (11) 25 and "variable capacitance"
- ✖ L27: (1) 26 and (adjust\$3 near8 "variable capacitance")
- ✖ L28: (10.710) tunable near5 filter
- ✖ L29: (22) 28 and (adjust\$3 near8 "variable capacitance")
- ✖ L30: (14) 29 and (frequency near3 control\$4)
- ✖ L31: (1) 30 and "fixed inductance"
- ✖ L32: (1) 30 and "external load capacitor"
- ✖ L33: (7) 29 and (frequency near3 control\$4)
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- ✖ L35: (1) 30 and "external load capacitor".clm.

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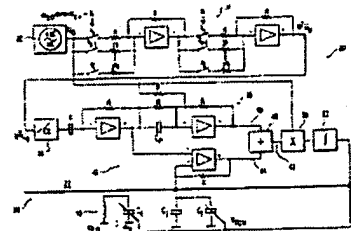
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United States
Patent Application Publication
Publication No. US 2006/0072276 A1
Pub. Date: Apr. 6, 2006

TUNABLE TRACKING FILTER
Inventor: Joseph Michael Ruitenburg, Princeton, NJ
Attorney: KONGSKAHL, PHELPS, LEE & BENTLEY LLP, NEW YORK, NY
IPC Class: H03H 7/30
US Class: 333/100
Abstract: A tunable tracking filter is disclosed. The filter includes an input stage, a variable capacitor, a fixed inductor, and a feedback stage. The filter is configured to track a target frequency and maintain a constant quality factor. The filter is suitable for use in a variety of applications, including wireless communication systems.



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	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current X	Ret	Inventor	S
1			US 20060072276 A1	20060406	6	Tunable tracking filter	361/113			Ruitenburg, Leonardus Joseph Michael	

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- L13: (1) ("5060297").PN.
- L14: (0) "EP 0766391 A"
- L15: (0) ("EP766391A").PN.
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- L17: (0) ("EP766391").PN.
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- L35: (1) 30 and "external load capacitor".clm.
- L34: (1) 29 and (frequency near3 control\$4).clm.

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(a) United States (a) Patent Application Publication Number		(c) Pub. No.: US 2006/0072376 A1 (d) Pub. Date: Apr. 6, 2006	
(b) FINANCE TRADING ORDER (b) Inventor: Jonathan David Willard Washington, D.C.		(b) Related U.S. Application Data (b) Continuation of application Ser. No. 11/777,777, filed in the U.S. on 2007/01/02	
(b) Classification Primary Class 705/39 International Class H04L 12/58 U.S. Class 705/39 U.S. Class 705/39		(b) Publication Classification (b) Int. Cl. H04L 12/58 (b) U.S. Cl. 705/39	
(b) Abstract NON-VOLATILE FINANCE TRADING ORDER (b) App. No. 11/777,777 (b) Pub. No. US 2006/0072376 A1 (b) Pub. Date Apr. 6, 2006		(b) Abstract NON-VOLATILE FINANCE TRADING ORDER (b) App. No. 11/777,777 (b) Pub. No. US 2006/0072376 A1 (b) Pub. Date Apr. 6, 2006	
(b) Claims 1-10 (b) App. No. 11/777,777 (b) Pub. No. US 2006/0072376 A1 (b) Pub. Date Apr. 6, 2006		(b) Claims 1-10 (b) App. No. 11/777,777 (b) Pub. No. US 2006/0072376 A1 (b) Pub. Date Apr. 6, 2006	
(b) Drawings 1-10 (b) App. No. 11/777,777 (b) Pub. No. US 2006/0072376 A1 (b) Pub. Date Apr. 6, 2006		(b) Drawings 1-10 (b) App. No. 11/777,777 (b) Pub. No. US 2006/0072376 A1 (b) Pub. Date Apr. 6, 2006	

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	U	I	Document ID	Issue Date	Pages	Title	Current OR	Current X	Ret	Inventor	S
1			US 20060072276 A1	20060406	6	Tunable tracking filter	361/113			Ruitenburg, Leonardus Joseph Michael	P

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29 and (frequency near3 control\$4)

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2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6983136 B2	20060103	10	Directly tuned filter and method of directly tuning a filter	455/307	455/226.1; 455/306; 455/307		Mason, Ralph et al.	<input checked="" type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	US 6859097 B2	20050222	16	Radio frequency feedback amplifier circuits	330/107	330/305		Chandler, Stephen Anthony Gerard	<input checked="" type="checkbox"/>
4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6072999 A	20000606	14	Receiving apparatus	455/286	333/175; 333/202; 333/207		Konishi, Takaaki et al.	<input checked="" type="checkbox"/>
5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5949290 A	19990907	9	Voltage controlled oscillator tuning apparatus and method	331/9	327/105; 331/1R; 331/106		Bertram, Earnest L.	<input checked="" type="checkbox"/>
6	<input type="checkbox"/>	<input type="checkbox"/>	US 3935534 A	19760127	22	Converter-tuner for information	725/151	348/E7.049		Lewis, David E. et al.	<input checked="" type="checkbox"/>

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- ☞ L10: (24) 8 and "oscillator frequency"
- ☞ L11: (0) 10 and (adjust\$3 near8 "variable capacitance")
- ☞ L12: (0) 10 and "external load capacitor"
- ☞ L13: (1) ("5060297").PN.
- ☞ L14: (0) "EP 0766391 A"
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US 2006/02276 A1

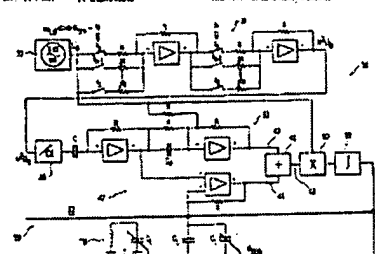
United States
Patent Application Publication (Pub. No.: US 2006/02276 A1)
Publication Date: Apr. 6, 2006

INVENTOR: LEONARDUS JOSEPH RUITENBURG, JR. (NY)
Attorney: ROBERT J. KATZ, JR. (CA)

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Classifications:
(11) Int. Cl. H03H 005/00 (2006.01)
(12) U.S. Cl. 329/001 (2006.01)

Abstract:
An integrated circuit (IC) with an antenna & output. The IC includes an integrated circuit with a variable capacitor, a variable inductor, and a variable capacitor. The IC is configured to receive a signal from an antenna and to output a signal to an antenna.



	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current X	Ret	Inventor	S
1	<input type="checkbox"/>	<input type="checkbox"/>	US 20060072276 A1	20060406	6	Tunable tracking filter	361/113			Ruitenburg, Leonardus Joseph Michael	<input checked="" type="checkbox"/>

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L2: (250) 1 and (LC and tuner)

L3: (56) 2 and "variable capacitance"

L4: (43) 3 and inductance

L5: (0) 3 and "fixed inductance"

L6: (26) 4 and "band pass filter"

L7: (26) 6 and voltage

L8: (25) 7 and (frequency near3 control\$4)

L9: (0) 8 and "arbitrary oscillator frequency"

L10: (24) 8 and "oscillator frequency"

L11: (0) 10 and (adjust\$3 near8 "variable capacitance")

L12: (0) 10 and "external load capacitor"

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United States

Patent Application Publication

Rutenberg

Pub. No.: US 2006/0072276 A1

Pub. Date: Apr. 6, 2006

TUNABLE TRACKING FILTER

Inventor: Leonardus Joseph Michael Rutenberg, Tucson, AZ

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Attorney: KOPPELMAN, PHILIP LUTCHMANN & NORTH AMERICA CORPORATION

APN No.: 100333372

PCT No.: No. P. 2003

PCT No.: PCT/US03/00000

Related U.S. Application Data

Parental application No. 08/473,386, filed on Mar. 19, 2002

Publication Classification

Int. Cl. H03H 7/00 (2006.01)

U.S. Cl. 329/313

ABSTRACT

As integrated circuit device (IC) with an arbitrary IF output. The circuit includes an integrated circuit with a fixed-frequency output (30) and a variable external variable capacitor (1), for adjusting a tracking of a signal (1) and post filter (10) with an arbitrary output.

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